

Table 1

	Example 1	Example 2	Example 3	Example 4	Example 5	Example 6
Description	Polyamide	Polyamide	Polyamide	Polyamide	Polyamide	Polyamide
Polymer	60	60	60	60	60	60
Relative viscosity to formic acid						
Addition amount of titanium oxide (ppm)	0	0	0	0	0	0
Addition amount of copper (ppm)	65	65	65	65	65	65
Fineness of yarn (dTex)	78	78	78	78	78	78
Number of filament	35	35	35	35	35	35
Tensile strength (cN/dTex)	7.1	6.3	5.4	7.1	6.7 x 7.1	7.1
Elongation at break (%)	22	24	37	22	25 x 22	22
Tensile work at break (cN·cm/dTex)	16.3	23.9	26.0	16.3	19.8 x 16.3	16.3
Birefringence ($\Delta n \times 10^3$)	56	54	53	56	54 x 56	56
Fineness of yarn (warp x weft) (dTex)	78/2 x 78/2	78/2 x 78/2	78/2 x 78/2	78/2 x 78/2	78/2 x 78/2	78/1 x 78/1
(Total Fineness of yarn) (dTex)	156 x 156	156 x 156	156 x 156	156 x 156	156 x 156	78 x 78
Weave density (end or picks/2.54 cm)	95 x 93	95 x 93	95 x 93	90 x 98	94 x 94	142 x 142
Weave Fineness of yarn (dTex end/2.54 cm)	14820 x 14508	14820 x 14508	14820 x 14508	14040 x 15288	14664 x 14664	11076 x 11076
Thickness (mm)	0.198	0.198	0.198	0.197	0.197	0.158
Basis of Weight (g/m ²)	125	125	125	125	125	94
Tensile strength (N/2.54 cm)	1010 x 930	900 x 850	770 x 740	963 x 983	951 x 941	760 x 740
Elongation at breaks (%)	35 x 27	45 x 34	54 x 43	35 x 27	40 x 27	37 x 26
Load at 15% elongation (N/%/2.54 cm)	16 x 14	12 x 14	13 x 14	-	-	8 x 16
Tensile work at break (N·%/2.54 cm)	20500 x 13500	20600 x 14500	17500 x 13600	17800 x 14900	20500 x 14000	12500 x 8000
Retention of resistance to heat (%)	95	95	95	95	95	95
Compactness	0.81	0.81	0.81	0.83	0.80	0.75
Result of deployment test	Not broken	Not broken	Not broken	Not broken	Not broken	Not broken
Air bag						

Note: X denotes that values in warp and weft are shown.

Table 2

	Description	Comparative Example 1	Comparative Example 2	Comparative Example 3	Comparative Example 4
Polymer	Relative viscosity to formic acid	Polyamide 60	Polyamide 60	Polyamide 45	Polyamide 80
	Addition amount of titanium oxide (ppm)	0	0	0	20
	Addition amount of copper (ppm)	0	10	70	70
	Fineness of yarn (dTex)	78	78	56	233
Yarn	Number of filament	35	35	34	35
	Tensile strength (cN/dTex)	7.0	6.3	5.4	7.1
	Elongation at break (%)	22	24	37	22
	Tensile work at break (cN·cm/dTex)	16.3	16.4	26.8	17.3
	Birefringence ($\Delta n \times 10^{-3}$)	56	56	53	57
	Fineness of yarn (warp x weft) (dTex)	78/2 x 78/2	78/2 x 78/2	56/1 x 56/1	233/1 x 233/1
	(Total Fineness of yarn) (dTex)	156 x 156	156 x 156	56 x 56	233 x 233
Fabric	Weave density (end or picks/2.54 cm)	95 x 93	95 x 93	192 x 190	78 x 75
	Weave Fineness of yarn (dTex end/2.54 cm)	14820 x 14508	14820 x 14508	10752 x 10640	18174 x 17475
	Thickness (mm)	0.198	0.198	0.130	0.230
	Basis of Weight (g/m ²)	125	125	92	152
	Tensile strength (N/2.54 cm)	998 x 872	1000 x 871	564 x 559	1326 x 1275
	Elongation at breaks (%)	16 x 15	16 x 14	7 x 17	20 x 30
	Load at 15% elongation (N/%/2.54 cm)	35 x 26	36 x 26	25 x 25	32 x 30
	Tensile work at break (N·%/2.54 cm)	20000 x 12000	20500 x 12000	6000 x 5900	30000 x 26000
	Retention of resistance to heat (%)	48	70	-	-
	Compactness	0.81	0.81	0.70	1.00
Air bag	Result of deployment test	Broken	Broken	Broken	Not broken